

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. IMM1P050A	Applic. No.: 09/571,397 10/657,854
	Applicant: Martin et al. Filing Date: 5/15/00 9/9/03	Group 2673

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
DB	A	3,490,059	1/13/70	Paulsen et al.	73	133	6/6/66
DB	B	3,903,614	9/9/75	Diamond et al.	35	12S	3/27/70
DB	C	3,919,691	11/11/75	Noll	340	172.5	5/26/71
DB	D	4,148,014	4/3/79	Burson	340	709	4/6/77
DB	E	4,227,319	10/14/80	Guy et al.	35	12S	3/5/79
DB	F	4,398,889	8/16/83	Lam et al.	434	45	6/8/81
DB	G	4,477,043	10/16/84	Repperger	244	223	10/16/84
DB	H	4,560,983	12/24/85	Williams	340	825	9/17/82
DB	I	4,603,284	7/29/86	Perzley	318	568	6/5/84
DB	J	4,632,341	12/30/86	Repperger et al.	244	230	2/6/85
DB	K	4,677,355	6/30/87	Baumann	318	160	5/27/86

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
DB	L	0 085 518	8/10/83	EPO	—	—	X	
DB	M	0 111 992	6/27/84	EPO	—	—	X	
DB	N	0470257A1	12.02.92	EPO	—	—	X	
DB	O	0655301A1	31.05.95	EPO	—	—	X	
DB	P	WO9520788	03.08.95	PCT	—	—	X	

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DB	R	Frederick P. Brooks, Jr. et al., "Project GROPE-Haptic Displays for Scientific Visualization," Computer Graphics, Vol. 24 # 4, Aug. 1990, pp. 177-185.
DB	S	Louis Rosenberg, "A Force Feedback Programming Primer," Immersion Corporation, 1997, pp. 1-176.
DB	T	Patrick Fischer et al., "Specification and Design of Input Devices for Teleoperation," IEEE CH2876-1, 1990, pp. 540-545.
Examiner	Jeff Piziali Date Considered 9/2/05	

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
JP	A	4,734,685	3/29/88	Watanabe	340	710	7/18/84
JP	B	4,775,289	10/4/88	Kazerooni	414	735	9/25/87
JP	C	4,795,296	1/3/89	Jau	414	5	11/17/86
JP	D	4,800,721	1/31/89	Cemenska et al.	60	393	2/13/87
JP	E	4,811,608	3/14/89	Hilton	73	862.04	11/6/86
JP	F	4,815,006	3/89	Andersson et al.	395	89	
JP	G	4,819,195	4/4/89	Bell et al.	364	571.05	1/20/87
JP	H	4,823,634	4/25/89	Culver.	74	471 XY	11/3/87
JP	I	4,840,634	6/89	Muller et al.	623	24	
JP	J	4,868,549	9/19/89	Affinito et al.	340	710	5/18/87
JP	K	4,914,976	4/10/90	Wyllie	74	523	4/13/88

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
JP	L	0875819	Nov 11 98	EPO	—	—	X	
JP	M	WO9532459	11/30/95	PCT	—	—	X	
JP	N	0470257A1	Feb 12 92	EPO	—	—	X	
JP	O	0655301A1	May 31 95	EPO	—	—	X	
JP	P	0626634A2	Nov 30 94	EPO	—	—	X	

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
JP	R	J. Edward Colgate et al., "Implementation of Stiff Virtual Walls in Force-reflecting Interfaces," Dept. of Mechanical Engineering, Northwestern Univ., Evanston IL. 1993, pp. 1-7.
JP	S	Antal K. Bejczy et al., "The Phantom Robot: Predictive Displays for Teleoperation with Time Display," IEEE CH2876-1, 1990, pp. 546-550.
JP	T	Louis B. Rosenberg, "The Use of Virtual Fixtures as Perceptual Overlays to Enhance Operator Performance in Remote Environments" Crew Systems Directorate Biodynamics and Biocommunications Div., Wright -Patterson AFB OH 45433-7901, 1992, pp. 1-42.
Examiner	Jeff Pizal Date Considered 8/2/05	

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DB	A	4,935,728	6/19/90	Kley	340	709	11/20/87
DB	B	4,961,038	10/2/90	MacMinn	318	696	10/16/89
DB	C	4,962,448	10/9/90	DeMaio et al.	364	146	9/30/88
DB	D	4,982,504	1/8/91	Soderberg et al.	33	502	2/17/89
DB	E	4,983,901	1/8/91	Lehmer	318	685	4/21/89
DB	F	5,007,300	4/16/91	Siva	74	471 XY	1/22/90
DB	G	5,044,956	9/3/91	Behensky et al.	434	45	1/12/89
DB	H	5,076,517	12/31/91	Ferranti et al.	244	228	8/14/89
DB	I	5,107,080	4/92	Rosen	200	6A	
DB	J	5,116,051	5/26/92	Moncrief et al.	273	448 B	6/8/90
DB	K	5,116,180	5/92	Fung et al.	414	5	

Foreign Patent or Published Foreign Patent Application

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							Yes	No
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	O							
	P							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DB	R	Louis B. Rosenberg, "Virtual Fixtures as Tools to Enhance Operator Performance in Telepresence Environments," SPIE Telemanipulator Technology, 1993.
DB	S	Louis B. Rosenberg, "Perceptual Design of a Virtual Rigid Surface Contact", Armstrong Laboratory, Crew Systems Directorate, Air Force Materiel Command, 1993, pp. 1-40.
DB	T	Bernard D. Adelstein et al., "A High Performance Two Degree-of-freedom Kinesthetic Interface", MIT, Cambridge, MA, 1992, pp. 108-112.
Examiner <i>Jeff Pizal</i>		Date Considered <i>9/2/05</i>

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
22	A	5,125,261	6/30/92	Powley	73	1J	5/28/91
27	B	5,142,931	9/1/92	Menahem	74	471 XY	2/14/91
23	C	5,143,505	9/1/92	Burdea et al.	414	5	2/26/91
23	D	5,146,566	9/8/92	Hollis Jr. et al.	395	275	5/29/91
22	E	5,148,377	9/15/92	McDonald	364	560	6/12/89
22	F	5,156,363	10/20/92	Cizewski et al.	244	223	2/28/91
23	G	5,182,557	1/93	Lang	341	20	
22	H	5,184,319	2/2/93	Kramer	364	806	2/2/90
27	I	5,185,561	2/9/93	Good et al.	318	432	7/23/91
27	J	5,193,963	3/16/93	McAfee et al.	414	5	10/31/90
22	K	5,195,179	3/16/93	Tokunaga	395	161	5/21/90

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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
22	R	Tan, H. et al., "Human factors for the design of force-reflecting haptic interfaces", Dept. Of Mech Engineering, MIT, 1994, pp. 1-11.
22	S	Tetsuo Kotoku, "A Predictive Display with Force Feedback and its Application to Remote Manipulation System with Transmission Time Delay", IEEE 0-7803-0737-2, 1992, pp. 239-246.
22	T	Louis B. Rosenberg et al., "The use of force feedback to enhance graphical user interfaces," Stereoscopic Displays and Virtual Reality Systems, Proc. SPIE 2653, 19, 1996, pp. 243-248.
Examiner <i>Jeff Piziali</i>		Date Considered <i>7/2/05</i>

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
JP	A	5,204,600	4/20/93	Kahkoska	318	602	2/6/91
JP	B	5,206,930	4/27/93	Ishikawa et al.	395	95	2/7/92
JP	C	5,209,131	5/11/93	Baxter	73	865.8	10/12/90
JP	D	5,220,260	6/15/93	Schuler	318	561	10/24/91
JP	E	5,223,776	6/93	Radke et al.	318	568.1	
JP	F	5,228,356	7/20/93	Chuang	74	471	11/25/91
JP	G	5,230,623	7/27/93	Guthrie et al.	433	72	12/10/91
JP	H	5,235,868	8/17/93	Culver	74	471 XY	10/2/91
JP	I	5,239,246	8/24/93	Kim	318	568	7/8/92
JP	J	5,254,919	10/19/93	Bridges et al.	318	560	3/22/91
JP	K	5,264,768	11/23/93	Gregory et al.	318	561	10/6/92

Foreign Patent or Published Foreign Patent Application

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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
JP	R	Bernard D. Adelstein et al., "Design and Implementation of a Force Reflecting Manipulandum for Manual Control Research" NASA Ames Research/Dept. of Mechanical Engineering, MIT, 1992, pp. 1-24.
JP	S	Pietro Buttolo et al., "Pen-based Force Display for Precision Manipulation in Virtual Environments", IEEE 0-8186-7084-3, 1995, pp. 217-224.
JP	T	Brain Schmult et al., "Application Areas for a Force-feedback Joystick", DSC-Vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, 1993, pp. 47-54.
Examiner	<i>Jeff Piziali</i> Date Considered <i>9/2/05</i>	

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
JS	A	5,286,203	2/15/94	Fuller et al.	434	45	10/7/92
JS	B	5,296,846	3/22/94	Ledley	345	161	10/5/92
JS	C	5,296,871	3/22/94	Paley	345	163	7/27/92
JS	D	5,327,790	7/12/94	Levin et al.	73	862.325	6/19/92
JS	E	5,341,459	8/23/94	Backes	395	95	8/9/91
JS	F	5,355,148	10/11/94	Anderson	345	166	1/14/93
JS	G	5,374,942	12/20/94	Gilligan et al.	345	157	8/12/93
JS	H	5,389,865	2/14/95	Jacobus et al.	318	568.11	12/2/92
JS	I	5,396,266	3/7/95	Brimhall	345	161	6/8/93
JS	J	5,398,044	3/14/95	Hill	345	145	12/7/93
JS	K	5,402,582	4/4/95	Raab	33	503	2/23/93

Foreign Patent or Published Foreign Patent Application

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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
JS	R	S.C. Jacobson et al., "High Performance, High Dexterity, Force Reflective Teloperator II", ANS Topical Meeting on Robotics and Remote Systems, 1991, pp. 1-10.
JS	S	Margaret Minsky, et al., "Feeling and Seeing: Issues in Force Display", Dept. of Computer Science, University of NC at Chapel Hill, ACM 1990 089791-351-5, pp. 235-242, 270.
JS	T	Koichi Hirota et al., "Development of Surface Display", IEEE O-7803-1363-1, 1993, pp. 256-262.
Examiner	<i>Jeff Piziali</i>	
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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
JP	A	5,405,152	4/11/95	Katanics et al.	273	438	6/8/93
JP	B	5,414,337	5/9/95	Schuler	318	561	6/11/93
JP	C	5,473,235	12/5/95	Lance et al.	318	561	12/21/93
JP	D	5,477,237	12/19/95	Parks	345	156	7/14/94
JP	E	5,482,051	1/96	Reddy et al.	128	733	
JP	F	5,512,919	4/30/96	Araki	345	156	03/30/93
JP	G	5,513,100	4/30/96	Parker et al.	364	167.01	06/10/93
JP	H	5,551,701	9/3/96	Bouton et al.	463	36	1/5/94
JP	I	5,570,111	10/29/96	Barrett et al.	345	157	10/3/94
JP	J	5,576,727	11/19/96	Rosenberg et al.	345	179	06/05/95
JP	K	5,587,937	12/24/96	Massie et al.	364	578	4/25/95

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
JP	R	A.J. Kelley et al., "Magicmouse: Tactile and Kinesthetic feedback in the Human-compute Interface Using an Eletromagnetically Actuated Input/output Device", Dept. of Electrical Engineering, University of British Columbia, Vancouver, BC, 1993, pp. 1-27.
JP	S	Hiroo Iwata, "Aritificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator", ACM 0-89791-344-2, 1990, pp. 165-170.
JP	T	Vincent Hayward et al. "Design and Multi-Objective Optimization of a Linkage for a Haptic Interface," Advances in Robot Kinematics and Computationed Geometry, Kluwer Academic Publishers, 1994, pp. 359-368.
Examiner <i>Jeff Pizal</i>		Date Considered <i>9/2/05</i>

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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
<i>JS</i>	A	5,589,828	12/31/96	Armstrong	341	20	03/05/92
<i>JS</i>	B	5,589,854	12/96	Tsai	345	161	
<i>JS</i>	C	5,591,082	1/7/97	Jensen et al.	463	38	1/5/95
<i>JS</i>	D	5,611,731	3/18/97	Bouton et al.	463	37	9/8/95
<i>JS</i>	E	5,623,582	4/97	Rosenberg	395	99	
<i>JS</i>	F	5,629,594	5/13/97	Jacobus et al.	318	568.11	10/16/95
<i>JS</i>	G	5,642,469	06/24/97	Hannaford et al.	395	99	11/03/94
<i>JS</i>	H	5,643,087	7/97	Marcus et al.	463	38	
<i>JS</i>	I	5,656,901	8/12/97	Kurita	318	436	4/21/95
<i>JS</i>	J	5,666,138	09/09/97	Culver	345	161	11/22/94
<i>JS</i>	K	5,680,141	10/97	Didomenico et al.	342	372	

Foreign Patent or Published Foreign Patent Application

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							Yes	No
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
<i>JS</i>	R	Kilpatrick, Paul Jerome, "The Use of Kinesthetic Supplement in an Interactive Graphics System", University of North Carolina at Chapel Hill, 1976, pp. 1-175.
<i>JS</i>	S	Winey III, Calvin, "Computer Simulated Visual and Tactile Feedback as an Aid to Manipulator and Vehicle Control," Dept. of Mech. Engineering, MIT, 1981, pp. 1-79.
<i>JS</i>	T	Hannaford, B. et al., "Performance Evaluation of a Six-Axis Generalized Force-Reflecting Teleoperator," IEEE Transactions on Systems, Man, and Cybernetics, Vol. 21, No. 3, 1991, pp. 620-623, 631-633.
Examiner	<i>Jeff Pizol</i>	
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U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DB	A	5,694,153	12/97	Aoyagi et al.	345	161	
DB	B	5,709,219	1/20/98	Chen et al.	128	782	8/1/96
DB	C	5,714,978	2/3/98	Yamanaka et al.	345	157	12/5/95
DB	D	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
DB	E	5,724,068	3/98	Sanchez et al.	345	161	
DB	F	5,724,264	3/3/98	Rosenberg et al.	364	559	8/7/95
DB	G	5,727,188	3/10/98	Hayes	395	500	1/19/96
DB	H	5,731,804	3/24/98	Rosenberg	345	156	1/18/95
DB	I	5,734,373	3/98	Rosenberg et al.	345	161	
DB	J	5,742,278	4/21/98	Chen et al.	345	156	11/1/95
DB	K	5,742,278	4/98	Chen et al.	345	156	

Foreign Patent or Published Foreign Patent Application

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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DB	R	Atkinson, W. et al., "Computing with Feeling," Comput. & Graphics, Vol. 2, 1977, pp. 97-103.
DB	S	Millman, Paul et al., "Design of a Four Degree-of-Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," Proc. of 1991 IEEE Int'l Conf. on Robotics and Automation, IEEE, 1991, pp. 1488-1493.
DB	T	Howe, R. et al., "Task Performance with a Dextrous Teleoperated Hand System," Telemanipulator Technology '92, Proc. of SPIE, Vol. 1833, 1992, pp. 1-9.
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U.S. Patent Documents

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DB	A	5,749,577	5/12/98	Couch et al.	273	148B	5/31/95
DB	B	5,754,023	5/19/98	Roston et al.	318	561	10/22/96
DB	C	5,755,577	5/26/98	Gillio	434	262	7/11/96
DB	D	5,760,764	6/2/98	Martinelli	345	160	12/13/95
DB	E	5,767,839	6/16/98	Rosenberg	345	161	3/3/95
DB	F	5,769,640	6/23/98	Jacobus et al.	434	262	8/10/95
DB	G	5,771,037	6/23/98	Jackson	345	157	7/24/95
DB	H	5,781,172	7/14/98	Engel et al.	345	164	6/16/97
DB	I	5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92
DB	J	5,805,140	9/8/98	Rosenberg et al.	345	161	11/17/95
DB	K	5,818,426	10/98	Tierney et al.	345	161	

Foreign Patent or Published Foreign Patent Application

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							Yes	No
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Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DB	R	Batter, J. et al., "Grobe-1: A Computer Display to the Sense of Feel," Proc. IFIP Congress 1971, pp 759-763.
DB	S	Ouh-young, M., "Force Display in Molecular Docking," Dept. of Computer Science, Univ. of N. Carolina at Chapel Hill, 1990, pp. 1-12, 66-85.
DB	T	Ellis, R.E. et al., "Design and Evaluation of a High-Performance Prototype Planar Haptic Interface," DSC-Vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 55-64.
Examiner	Jeff Piziali Date Considered 9/2/05	

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Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. IMM1P050A	Serial No.: 09/571,397
	Applicant: Martin et al. Filing Date: 5/15/00	Group 2673

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
<i>DB</i>	A	5,821,920	10/13/98	Rosenberg et al.	345	156	3/28/97
<i>DB</i>	B	5,823,876	10/20/98	Unbehand	463	37	5/3/96
<i>DB</i>	C	5,825,308	10/20/98	Rosenberg	341	20	11/26/96
<i>DB</i>	D	5,828,197	10/98	Martin et al.	318	567	
<i>DB</i>	E	5,831,593	11/98	Rutledge	345	156	
<i>DB</i>	F	5,841,428	11/24/98	Jaeger et al.	345	184	9/20/96
<i>DB</i>	G	5,844,392	12/1/98	Peurach et al.	318	568.17	5/21/97
<i>DB</i>	H	5,872,438	2/16/99	Roston	318	568.11	7/1/97
<i>DB</i>	I	5,877,748	3/2/99	Redlich	345	163	11/20/95
<i>DB</i>	J	5,889,670	3/30/99	Schuler et al.	364	186	6/11/96
<i>DB</i>	K	5,959,613	9/28/99	Rosenberg et al.	345	161	11/13/96

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							
	M							
	N							
	O							
	P							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
<i>DB</i>	R	Rosenberg, L. et al., "Commercially Viable Force Feedback Controller for Individuals with Neuromotor Disabilities," Crew Systems Directorate, Wright-Patterson AFB, 1996, pp. 1-33.
<i>DB</i>	S	Gotow, J.K. et al., "Perception of Mechanical Properties at the Man-Machine Interface," IEEE CH2503-1, 1987, p. 688-689.
<i>DB</i>	T	McAffee et al., "Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," Jet Propulsion Laboratory-California Institute of Technology, 1988, pp. 1-11.
Examiner	<i>Jeff P. Neal</i> Date Considered <i>9/2/05</i>	

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	IMM1P050A	09/571,397
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	Martin et al.	
	Filing Date: 5/15/00	Group 2673

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DB	A	6,100,874	8/8/00	Sclenz et al.	345	157	
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							
	M							
	N							
	O							
	P							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DB	R	Russo, "The Design and Implementation of a three Degree-of-Freedom Force Output Joystick," 5/11/90, Dept. of Mech. Engineering, 1990.
DB	S	Snow et al., "Compact Force-Reflecting Hand Controller," NASA Tech Brief, Vol. 15, No. 4, Item #153, 1991, pp. 1-15a.
DB	T	J.N. Herndon, et al., "The State-of-the-Art Model M-2 Maintenance System," 1984, 1984 Topical Meeting on Robotics and Remote Handling in Hostile Environments, pp. 59-66.
Examiner	Jeff Pizal	
	Date Considered	9/2/05

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Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)	Atty Docket No. IMM1P050A	Serial No.: 09/571,397
	Applicant: Martin et al. Filing Date: 5/15/00	Group 2673

U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
	A						
	B						
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	G						
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	J						
	K						

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	L							
	M							
	N							
	O							
	P							

Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
<i>JP</i>	R	Meyer et al., "A Survey of Position Trackers," Presence, Vol. 1, No. 2, 1992, pp. 173-200.
	S	
	T	
Examiner	<i>Jeff Piziali</i>	Date Considered <i>9/2/05</i>

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